

Notice of Allowability	Application No.	Applicant(s)	
	10/029,199	SONG, JAE WOOK	
	Examiner	Art Unit	
	Kevin Mew	2664	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 1/26/2006.
2. The allowed claim(s) is/are 1-6, 8, 10-17 which have renumbered as claims, 1-15, respectively.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some* c) None of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
 Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),
 Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
 of Biological Material
5. Notice of Informal Patent Application (PTO-152)
6. Interview Summary (PTO-413),
 Paper No./Mail Date _____
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

Detailed Action

Response to Amendment

1. Applicant's remarks/arguments filed on 1/26/2006 regarding claims 1-17 have been considered. Claims 1-6, 8, 10-17 are currently pending. Claims 7, 9 have been canceled by applicant.

2. Acknowledgement is made of the amended claims 1, 4-6, 12-17 with respect to the claim objections set forth in the previous Office Action. Therefore, the corrections are acceptable and the claim objections to these claims have been withdrawn.

EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE

3. The following is an examiner's statement of reasons for allowance:

The present application relates to providing an apparatus for synchronizing frame and detecting code group/number, including the unique functions of:
“an on time despreader for despreading a receiving input by having a slot timing position designated after slot synchronization as a sampling point;
an early time and a late time despreaders for despreading a sampling point that is earlier or later than the sampling point of the on time despreaders;
a slew detector for detecting a time offset using energy of a despread signal outputted from the despreaders;
a slew storage connected to the slew detector for storing an outputted slew value at the result of the time offset detection based on the energy of the outputted despread signal from the

despreaders;

a multiplexer for selecting one out of outputted values from the on time, the late time and the early time despreaders according to the output of the slew detector', an energy storage for storing outputted values of the multiplexer; and

a code group detector for detecting frame synchronization and code groups using the outputted values from the energy storage and from the slew storage, respectively."

The closest prior art, Sarkar (US Publication 2002/0057664), discloses an apparatus for achieving synchronization by detecting primary synchronization code PSC best estimate energy, detecting PSC synchronization for a frame period and detecting the secondary synchronization code information SSC, and using the detected PSC best estimate energy and the slot timing offset. However, Sarkar fails to anticipate or render obvious the above quoted limitations. This renders the claims allowable.

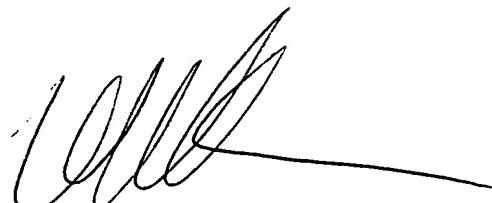
Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kevin Mew whose telephone number is 571-272-3141. The examiner can normally be reached on 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wellington Chin can be reached on 571-272-3134. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



WELLINGTON CHIN
ADVISORY PATENT EXAMINER

KDM
Art Unit 2664